| POSITION                  | INITIO | כא פו. | DATE      |  |  |  |  |  |  |
|---------------------------|--------|--------|-----------|--|--|--|--|--|--|
|                           |        |        |           |  |  |  |  |  |  |
| FEE DETERMINATION         |        |        |           |  |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       | 1000   |        | 2/19/01   |  |  |  |  |  |  |
| FORMALITY REVIEW          | 5      | 0,22   | 12/28/01  |  |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW | W.     | 717    | 06.15 -01 |  |  |  |  |  |  |
|                           |        |        |           |  |  |  |  |  |  |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

|          |          |              |                   |             |              | ÷         | •       | ••••              | •••••    |            | •••••    | ••••      | ••••• | K             | 531       | 11011    |              |          |  |              | U         | ••••   | ••••      | ••••••    |           | ••••• | ••••  | . Ubjec    | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |          |           |              |          |          |           |          |          |
|----------|----------|--------------|-------------------|-------------|--------------|-----------|---------|-------------------|----------|------------|----------|-----------|-------|---------------|-----------|----------|--------------|----------|--|--------------|-----------|--|-----------|-----------|-----------|-------|-------|------------|---|----------|-----------|--------------|----------|----------|-----------|----------|----------|
| Cla      | im       | 4            |                   |             |              | Da        | te      |                   |          |            |          |           | [     | Clai          | m         |          |              |          |  | Date         | 9         |  |           |           |           | [     | Cla   | im         |   |          |           | Dat          | 9        |          |           | _        | _        |
|          |          | 8            | 2 6/2/02          | 2 12/16/02  | 1/2/67       | 2/6/12/03 | Jun'    |                   | Ţ        |            |          |           |       |               | 쿌         |          |              |          | 1                                      |              |           |  | 1         | 1         | 1         |       | İ     | 쿌          |   |          |           |              |          |          |           | ١        |          |
| Final    | Original | 3/34/        | 2/5               | 4/16        | 1/2          | 3         | 15      | 9                 | Ì        |            | 1        | 1         |       | Final         | Original  |          |              | ļ        |  | -            | 1         | ı  |           |           |           |       | Final | Original   |   |          | 1         | I            |          |          | ı         |          |          |
| 뛰        | 윙        | L            | 7                 | -           | 1.1          | 2         | 7       | 7                 | +        | ╬          | +        | ┥         | ŀ     | -             | 51        | -        | $\dashv$     | _        | -                                      | -            | $\dashv$  | $\dashv$   | $\dashv$  | ╅         | $\dashv$  | H     |       | 101        | Н                                       | $\dashv$ | ᅱ         | $\dashv$     | $\dashv$ | -        | $\dashv$  | $\dashv$ |          |
| Н        | 7        | +            | 1,                | 17          | ۴            | ľ.        | 1       | +                 | $\dashv$ | $\dashv$   | +        | $\dashv$  | ŀ     |               | 52        | _        | $\dashv$     | $\dashv$ | -                                      |              | ┪         | $\dashv$   | _         | +         | ᅥ         | F     |       | 102        | Н                                       |          | ┪         | $\dashv$     | 十        | 7        | -         | $\dashv$ |          |
| $\vdash$ | 3        | +            | H                 | 1           | H            | Н         | Н       | H                 | 十        | $\dashv$   | $\dashv$ | ┪         | ŀ     |               | 53        | -        |              | ┪        | _                                      | 一            | ᅥ         | 7  |           |           | 1         | ı     |       | 103        | П                                       |          | 7         | 1            | 7        |          | ヿ         | ╛        | П        |
| Н        | 4        | t            | Н                 | ╫╴          | H            | Н         | Ħ       | +                 | 十        | $\dashv$   | ╅        | ┪         | ı     |               | 54        | _        |              |          | $\dashv$                               | 寸            |           |  | $\exists$ |           |           | t     |       | 104        |   |          |           |              |          |          | コ         | $\Box$   |          |
| П        | 5        | T            | П                 | 11          | П            | П         | П       |                   |          |            | T        |           | [     |               | 55        |          |              |          |  | $\Box$       |           |  |           |           |           |       |       | 105        |   |          |           |              |          |          | $\Box$    | $\Box$   |          |
|          | 6        | $\mathbf{I}$ |                   | П           | П            | Ц         | Ш       |                   |          |            |          |           | Į     |               | 56        | _        |              | _        | _                                      | _            | _         | _  | _         | $\perp$   | _         | L     |       | 106        | Ш                                       | Ш        | _         | _            | $\perp$  | _        | _         | _        | L        |
|          | 7        | Ţ            | Ц                 | 11          | Ц            | Ц         | Щ       | 4                 | _        | _          | _        | _         |       | _             | 57        | 4        | $\dashv$     | _        | 4                                      | _            | _         | 4  | _         |           | 4         | ŀ     |       | 107        | Ш                                       | 4        | Ш         | _            | -        | _        |           | $\dashv$ | -        |
| Ш        | 8        | 4            |                   | Ι,          | Ц            | Ļ         | /       | ,                 | 4        | +          | -        | 4         | - }   | $\rightarrow$ | 58        | -        | $\dashv$     |          |  | -            | -         |  |           | +         | 4         | -     | _     | 108        | H                                       | _        | _         |              |          | $\dashv$ | $\dashv$  | $\dashv$ | H        |
| _        | 9        | +            | N                 | N           | N            | N         | 1       | 4                 | $\dashv$ | $\dashv$   | $\dashv$ | 4         | - 1   |               | 59<br>60  | $\dashv$ | _            | $\dashv$ | $\dashv$                               | $\dashv$     | $\dashv$  | $\dashv$   | -         | -+        | $\dashv$  | -     |       | 110        | Н                                       | Н        | _         | $\dashv$     |          | -        | $\dashv$  | $\dashv$ | $\vdash$ |
|          | 11       | +            | <u>  ~</u>        | 7-1         | ₽            | H         | 4       | 4                 | -        | -          | -        | -         | - 1   |               | 61        | -        | -            | -        | -                                      | $\dashv$     | $\dashv$  | -  |           | $\dashv$  | $\dashv$  | ŀ     |       | 111        | H                                       | _        | H         | $\dashv$     | -        | $\dashv$ | ⇥         | $\dashv$ | H        |
| $\vdash$ | 12       | +            | H                 | H           | ╁            | Н         | Н       | Н                 | -        | +          | +        | $\dashv$  | }     | $\overline{}$ | 62        |          | $\dashv$     | -        | $\dashv$                               |              |           |  |           | $\dashv$  | $\dashv$  | ŀ     | _     | 112        | ╁                                       |          |           |              | $\dashv$ | ┪        |           | $\dashv$ | Г        |
| $\vdash$ | 13       | +            | H                 | ++          | +            | H         | ۲       | H                 | +        | ij         | +        | ᅱ         |       | _             | 63        |          | -            |          | Н                                      | $\neg$       | $\exists$ | $\neg$   | $\dashv$  | _         | $\dashv$  | ŀ     |       | 113        | $\vdash$                                |          |           | T            | _        | _        | 十         | $\sqcap$ | Γ        |
|          | 14       | 1            | H                 | #           | 十            | ††        | +       | $\dagger \dagger$ | $\dashv$ | $\dashv$   | _        | ┨         |       | $\rightarrow$ | 64        | $\dashv$ | _            |          |  |              | $\neg$    | _  | П         |           | $\exists$ | ļ     | _     | 114        |   | ٦.       |           |              |          |          | $\dashv$  |          | Γ        |
| $\vdash$ | 15       | 7            | $\dagger \dagger$ | #           | T            | Ħ         | Ť       | Ħ                 | 7        | 7          | 7        | $\exists$ |       |               | 65        |          |              | П        |  |              |           |  |           |           |           | ı     |       | 115        |   |          |           |              |          |          |           |          | Γ        |
|          | 16       | 7            | П                 | $\parallel$ | Τ            | $\prod$   | 1       | Ţţ                |          |            | ╛        | ╛         |       |               | 66        |          |              |          |  |              |           |  |           |           |           |       |       | 116        |   |          |           |              |          |          |           |          |          |
|          | 17       |              | П                 | П           |              | $\prod$   | Ι       | $\prod$           |          |            |          |           | ĺ     |               | 67        |          |              |          |  |              |           |  |           |           |           |       |       | 117        |   |          |           |              |          |          |           | Ш        | L        |
|          | 18       | Ц            | П                 | $\parallel$ |              | Ц         | $\perp$ | Ц                 |          |            | _        | ╝         |       | -             | 68        | L        |              |          |  | Ш            |           |  |           | _         | _         | -     |       | 118        | <u> </u>                                | _        |           |              |          | _        | _         | $\sqcup$ | <u> </u> |
| L        | 19       | Ц            | Ш                 | 1           | 1            | Ш         | $\perp$ | Ц                 |          | _          | _        | _         |       | -             | 69        |          |              |          |  | Ш            |           |  |           | 4         | _         | -     | _     | 119        | <u> </u>                                | _        | _         |              |          | Щ        | _         |          | Ŀ        |
| L        | 20       |              | Ш                 | 11          | <u> </u>     | П         | ┸       | Ц                 | _        | _1         | $\perp$  | ┙         |       | Ш             | 70        | Ш        | _            |          |  | Ш            |           |  |           | Ц         | _         | Ļ     | _     | 120        | _                                       |          | L.        |              |          |          | _         | Ш        | L        |
|          | 21       | Ц            | Ц                 | 11          | <u> </u>     | Ц         | Щ       | Ц                 | _        | _          | $\dashv$ | ᅵ         |       | Щ             | 71        | ٠.       | _            |          | Щ                                      | ш            | _         |  | _         | Н         | _         |       |       | 121        | ┞                                       | L        | <u> </u>  | Ш            | $\sqcup$ |          |           | Н        | L        |
| $\vdash$ | 22       | Ц            | Ц                 | 11          | ╀            | Ц         | Щ       | Н                 |          | _          | _        | 4         |       | Ш             | 72        | $\vdash$ | _            | <u> </u> | _                                      | ļ            | _         |  |           | $\dashv$  | 4         | - }   |       | 122<br>123 | ╀                                       | ⊢        | <u> </u>  |              | -        | $\vdash$ | -1        | Н        | ┡        |
| $\vdash$ | 23       | ļ.           | T,                | _           | 4            | ¥         | ц.      | 4                 |          | _          | $\dashv$ | 긕         |       | Н             | 73<br>74  | H        | _            | $\vdash$ |  | _            |           |  |           | $\dashv$  | $\dashv$  | -     |       | 124        | $\vdash$                                | $\vdash$ | -         |              | -        | -        | $\dashv$  | Н        | ⊢        |
| -        | 24       | 5            | ╨                 | <u> </u>    | ╬            | 4         | 4       | 겍                 |          | $\dashv$   | $\dashv$ | ᅱ         |       | Н             | 75        |          | 1 17         |          |  |              | -         |  |           |           | $\dashv$  |       |       | 125        | +                                       |          |           | -            | -        |          |           | Н        | H        |
| _        | 25<br>26 | ┝            | ╀                 | ╁           | ╁            | ╁         | ╁       | ┥                 |          | -          | $\dashv$ |           |       | H             | 76        | $\vdash$ | _            | -        |  | Н            | $\vdash$  |  | -         | Н         | $\dashv$  | 1     | _     | 126        | +                                       |          |           | Н            |          | -        | -         | Н        | ┝        |
| -        | 27       | -            | ╁                 | ┿           | ╁╴           | ╁         | +       | ┪                 | -        |            |          | _         |       | $\vdash$      | 77        | -        |              | Н        | H                                      | Н            | ┢         | _  | $\vdash$  | $\vdash$  | ┪         | 1     |       | 127        | $\vdash$                                | ┪        |           | Н            | $\Box$   |          | $\exists$ |          | r        |
| $\vdash$ | 28       | ┢            | t                 | +           | ╁            | †         | +       | ┪                 | $\neg$   |            | $\dashv$ | T         |       | $\vdash$      | 78        | Г        | $\vdash$     |          |  | Г            |           | $\vdash$   | H         | $\Box$    | ╛         | 1     | _     | 128        | T                                       | T        |           |              |          |          | $\neg$    |          | Г        |
|          | 29       |              | T                 | T           | T            | T         | Ť       | 7                 |          | $\Box$     | Ħ        | _         |       | Г             | 79        | Т        |              |          |  | Г            |           | Г  |           |           |           |       |       | 129        | Π                                       |          |           |              |          |          |           |          |          |
|          | 30       | 1            | ři–               | †           | T            | T         | T       | ╗                 |          |            |          |           |       |               | 80        |          |              |          |  |              |           |  |           |           | $\Box$    |       | _     | 130        |   |          |           |              |          |          |           |          |          |
|          | 31       |              |                   |             |              |           | I       |                   |          |            |          |           |       |               | 81        |          |              |          |  |              |           |  | L         |           | $\Box$    | Į     |       | 131        | _                                       |          |           |              |          |          | Ш         |          | L        |
|          | 32       | 1            | L                 | $\perp$     | $\perp$      | $\perp$   | $\perp$ |                   |          |            |          |           |       | 匚             | 82        |          | L            | _        | L                                      | ╙            |           | _  | _         |           | _         | 1     |       | 132        | -                                       |          |           | _            |          |          |           |          | L        |
| L        | 33       | L            | ╀                 | ┸           | ╀            | ┸         | 4       |                   |          |            | Ш        | _         |       | ╙             | 83        | L        | L            | L        | ╙                                      | ⊢            | _         | <u> </u>   | <u> </u>  | $\sqcup$  | 4         |       |       | 133        | ╄                                       | -        | ļ         | ļ            | _        | _        | Н         | ш        | ļ.       |
| -        | 34       | 1            | +                 | $\perp$     | +            | +         | +       | 4                 | -        | Щ          | Н        |           |       | $\vdash$      | 84        | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$                               | ⊢            | $\vdash$  | ⊢  | $\vdash$  | ⊢         | $\dashv$  | ŀ     |       | 134        | $\vdash$                                | ⊢        | <u>-</u>  | <del> </del> | Н        | $\vdash$ | $\vdash$  | -        | +        |
| $\vdash$ | 35<br>36 | ┝            | +                 | +           | +            | +         | +       | 4                 | -        | $\vdash$   | Н        | 4         |       | ⊢             | 85<br>86  | $\vdash$ | ⊢            | ╁        | $\vdash$                               | $\vdash$     | $\vdash$  | $\vdash$   | ⊢         | ╁         | $\dashv$  | ŀ     | _     | 136        | ╁                                       | ┝        | -         | -            | $\vdash$ | Н        | -         | -        | ╁        |
| ╟        | 37       | +            | ╁                 | +           | +            | +         | +       | 4                 | H        | $\vdash$   | Н        | ᅴ         |       | $\vdash$      | 87        | $\vdash$ | H            | ┢        | ⊢                                      | $\vdash$     | $\vdash$  | $\vdash$   | $\vdash$  | ╁╌┤       | $\dashv$  | 1     |       | 137        | ╁                                       | $\vdash$ | Н         | $\vdash$     | Н        | Н        | Н         | $\vdash$ | H        |
| -        | 38       |              | +                 | +           | +            | +         | +       | -                 | H        | -          | $\vdash$ | Н         |       | $\vdash$      | 88        | $\vdash$ | $\vdash$     | 1        | H                                      | $\vdash$     | $\vdash$  | $\vdash$   | $\vdash$  | $\forall$ | $\dashv$  |       |       | 138        | +                                       | $\vdash$ | Н         | $\vdash$     | H        | H        | Н         | Н        | t        |
| $\vdash$ | 39       | _            | t                 | +           | +            | +         | ┪       |                   | $\vdash$ | -          | H        |           | *     |               | 89        |          |              |          |  |              |           |  |           |           |           |       |       | 139        | T                                       | T        | T         | $\vdash$     |          | Н        | Н         | 一        | t        |
| $\vdash$ | 40       |              | $^{\dagger}$      | +           | $^{\dagger}$ | +         | +       |                   | $\vdash$ |            | Н        |           |       |               | 90        | -        |              |          |  |              | Τ         | Т  | Г         | $\sqcap$  |           |       | _     | 140        | Τ                                       | Г        | Г         | Γ            | П        |          | П         | Г        | T        |
| $\vdash$ | 41       | ┿-           | †                 | +           | $^{+}$       | +         | +       |                   | Н        |            | H        | H         |       | $\vdash$      | 91        | 1        | <del> </del> | T        | T                                      | $\vdash$     | Т         | <del>                                     </del> | T         | П         | $\dashv$  |       |       | 141        | T                                       | Τ        | T         | Т            | П        | П        | П         | Г        | r        |
| -        | 42       |              | t                 | 十           | +            | +         | +       |                   |          | Н          | H        | $\dashv$  |       | H             | 92        |          |              | T        | T                                      | Г            | T         | Т  | Т         | $\sqcap$  | $\neg$    | Ì     | _     | 142        | 1                                       | T        | T         | ┢            | П        | П        | П         | Г        | Γ        |
|          | 43       |              | T                 | T           | T            | +         | 1       |                   | $\vdash$ | Г          | П        |           |       |               | 93        |          | Γ            | Γ        |  |              | Ŀ         |  |           |           |           |       |       | 143        |   |          |           |              |          |          |           |          | Γ        |
|          | 44       |              | T                 | T           | T            | 1         |         |                   |          |            | П        |           |       |               | 94        |          |              |          |  |              |           |  |           |           |           |       |       | 144        |   |          |           |              |          |          |           |          | Γ        |
|          | 45       |              | Ι                 | I           | Ι            |           |         |                   |          |            |          |           |       |               | 95        | •        | 匚            |          |  |              |           | 匚  |           | П         | $\Box$    |       |       | 145        |   |          |           |              |          |          |           |          | Ĺ        |
|          | 46       |              | Ţ                 | $\perp$     | $\perp$      | Ţ         | $\perp$ |                   | Ĺ        | L          | Ц        |           | l     |               | 96        |          | L            | L        | L                                      | <del> </del> | L         | ļ  | L         | Ш         | _         | ļ     |       | 146        | 1_                                      | L        | L.        | <u> </u>     | L.       | Щ        |           | L        | L        |
| L        | 47       |              | L                 | $\perp$     | $\perp$      | $\perp$   | 4       |                   | L_       | L          | Щ        |           |       | $\vdash$      | 97        |          | L            | L        | L                                      | ⊢            | <u> </u>  | L  | L         | Ш         | _         |       |       | 147        | ╄                                       | L        | L         | L            | Щ        | L,       | $\vdash$  | L        | L        |
| <u> </u> | 48       |              | ╀                 | 1           | 4            | 4         | 4       | _                 | L        | <u> </u> _ | Н        | Щ         |       | <u></u>       | 98        |          | $\vdash$     | ├-       | $\vdash$                               | $\vdash$     | $\vdash$  | ├-   | <u> </u>  | ┞╌┤       |           |       |       | 148        | ╀                                       | $\vdash$ | <b> </b>  | ⊢            | Н        | H        | ш         | _        | ╀        |
| <u>_</u> | 49       |              | ╀                 | +           | +            | +         | 4       |                   | $\vdash$ |            | Н        | Н         |       | <u></u>       | 99<br>100 | -        | ⊢            | ⊢        | ┝                                      | ⊢            | ⊢         | ⊢  | ⊢         | ⊢┤        | $\dashv$  | -     | _     | 149<br>150 | ╀                                       | ├-       | ├         | ├-           | -        | $\vdash$ | $\vdash$  | -        | ⊦        |
| L        | 50       | 上            |                   | ᆚ_          |              |           | 4       |                   | Щ.       | l          | Ш        |           | l     | $\vdash$      | li O(     | 1_       |              | Ц.       | ــــــــــــــــــــــــــــــــــــــ | L            | Ц.,       | Ц.,.   | L         | ш         |           | ŧ     |       | lion       | ⊥_                                      | <u> </u> | <u> —</u> |              |          | Ц_       | لـــا     | _        | <b>L</b> |

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If more than 150 claims or 10 actions staple additional sheet here

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